

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re New CONTINUATION Application of)
Wayne A. ECKERLE et al.)
Based on Application No. 10/166,051) Art Unit: 3747
Which was Filed: June 11, 2002) Examiner: T. M. Argenbright
For: INTERNAL COMBUSTION ENGINE)
 PRODUCING LOW EMISSIONS)

INFORMATION DISCLOSURE STATEMENT

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. §1.98, a copy of each of the documents cited was submitted in Application No. 10/166,051, filed June 11, 2002, upon which is based a claim for priority under 35 U.S.C. §120.

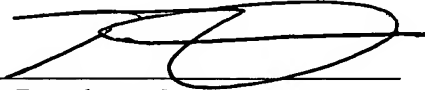
A discussion of the article "Future Developments in Commercial Vehicle Engines", U.S. Patent Nos. 4,377,967; 1,865,841; 3,508,531; 4,242,948; 5,029,563 and 5,868,112; and U.K. Patent Application No. 2075147 is given in the specification at pages 2-3.

This Information Disclosure Statement is not intended to constitute an admission that any patent, publication, or other information referred to herein is "prior art".

It is requested that the accompanying information disclosure statement be considered and made of record in the above-captioned application. To assist the

Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

A handwritten signature in dark ink, appearing to be 'T. Brackett, Jr.', written over a horizontal line.

Tim L. Brackett, Jr.
Registration No. 36,092

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Date: April 1, 2004

Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Application Number		
			Filing Date	April 1, 2004	
			First Named Inventor	Wayne A. ECKERLE	
			Group Art Unit	3747	
			Examiner Name	Tony M. Argenbright	
Sheet	1	of	3	Attorney Docket Number	740270-2925

U.S. PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US - 1,865,841	07-05-1932	Cummins	
		US - 3,020,900	02-13-1962	Hoffmann	
		US - 3,508,531	04-28-1970	Squinto et al.	
		US - 3,805,677	04-23-1974	Clary et al.	
		US - 4,056,044	11-01-1977	Kamman et al.	
		US - 4,161,165	07-17-1979	Belush et al.	
		US - 4,180,027	12-25-1979	Taylor	
		US - 4,242,948	01-06-1981	Stang et al.	
		US - 4,286,505	09-01-1981	Amdall	
		US - 4,377,967	03-29-1983	Pelizzoni	
		US - 4,531,502	07-30-1985	Mizuhara	
		US - 4,662,319	05-05-1987	Ayoub	
		US - 4,759,323	07-26-1988	August	
		US - 4,781,159	11-01-1988	Elsbett et al.	
		US - 4,909,132	03-20-1990	Kling et al.	
		US - 4,989,559	02-05-1991	Fletcher-Jones	
		US - 5,000,144	03-19-1991	Schweitzer et al.	
		US - 5,020,485	06-04-1991	Watanabe	
		US - 5,029,563	07-09-1991	Hu	
		US - 5,040,454	08-20-1991	Ballheimer et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		GB - 465,565	05-10-1937	Maschinenfabrik Augsburg-Nürnberg A.G.		
		GB - 713,637	08-18-1954	Daimler-Benz Aktiengesellschaft		
		DE - M 17120 Ia/46a ²	08-30-1956	Maschinenfabrik Augsburg-Nürnberg A.G.		
		FR - 1,217,467	05-04-1960	Daimler-Benz Aktiengesellschaft		
		DE - 1 301 657	08-21-1969	Gebrüder Sulzer AG		
		JP - 51-113007	10-05-1976			
		JP - 55-90	01-05-1980			
		GB - 2 075 147 - A	11-11-1981	Kawasaki Jukogyo Kabushiki Kaisha		
		GB - 2 079 851 - A	01-27-1982	Kabushiki Kaisha Komatsu Seisakusho		
		DD - 1588 06	02-02-1983	Presia, Edgar		√ Abst.

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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		Number - Kind Code ² (if known)			
		US - 5,099,809	03-31-1992	Kawatani et al.	
		US - 5,121,722	06-16-1992	Horiuchi	
		US - 5,215,052	06-01-1993	Augustin	
		US - 5,299,738	04-05-1994	Genter et al.	
		US - 5,305,720	04-26-1994	Ando et al.	
		US - 5,320,075	06-14-1994	Regueiro	
		US - 5,322,042	06-21-1994	di Priolo et al.	
		US - 5,363,820	11-15-1994	Neitz	
		US - 5,373,820	12-20-1994	Sakamoto et al.	
		US - 5,445,323	08-29-1995	Perr et al.	
		US - 5,555,867	09-17-1996	Freen	
		US - 5,692,468	12-02-1997	Haman et al.	
		US - 5,927,244	07-27-1999	Yamauchi et al.	
		US - 5,983,853	11-16-1999	Roessler et al.	
		US - 6,161,518	12-19-2000	Nakakita et al.	
		US - 2002/0000216 A1	01-03-2002	Ismailov	
		US -			
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		US -			

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		EP - 0 071 994 - A1	02-16-1983	Deere & Company		√ Abst.
		SU - 1107870 - A	03-15-1984	Gogrichiai		√ Abst.
		JP - 59-134322 - (A)	08-02-1984	Isuzu Jidosha KK		√ Abst.
		JP - 59-155551 - (A)	09-04-1984	Mitsubishi Jukogyo K.K.		√ Abst.
		JP - 60-17223 - (A)	01-29-1985	Yanmar Diesel Engine Co. Ltd.		√ Abst.
		JP - 60-32929 - (A)	02-20-1985	Yanmar Diesel Engine Co. Ltd.		√ Abst.
		JP - 60-135651 - (A)	07-19-1985	Mitsubishi Jukogyo K.K.		√ Abst.
		JP - 3-149315	06-25-1991	Yanma Diesel Engine, Inc.		√
		JP - 4-31651 - (A)	02-03-1992	Yanmar Diesel Engine Co. Ltd.		√ Abst./ Partial
		EP - 0 589 178 - A1	03-30-1994	MAN Nutzfahrzeuge Aktiengesellschaft		

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			Attorney Docket Number	740270-2925
Sheet	3	of	3	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		PATENT ABSTRACTS OF JAPAN, JP 56-106022 (Hino Motors Ltd.), August 24, 1981.	
		PATENT ABSTRACTS OF JAPAN, JP 06-346736 (Isuzu Motors Ltd.), December 20, 1994.	
		D. A. PIERPONT and R. D. REITZ, "Effects of Injection Pressure and Nozzle Geometry on D.I. Diesel Emissions and Performance", SAE Technical Paper No. 950604, International Congress and Exposition, Detroit, Michigan, February 27 – March 2, 1995.	
		C. G. A. ROSEN, "Future Developments in Commercial Vehicle Engines", Automotive Industries, October 15, 1952, pp. 38-42 and 100-104.	

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